	01		TENT	Docket No.
TRANSMITTAL OF	INFORMATION D	DISCLOSURE STA	ALEMENT	P-5540
(UI	nder 37 CFR 1.97(b)	) 01 1.9 (L.)		
Re Application of: H	ARDING ET AL.	O NOR W		
Serial No.	Filing Date 12/7/01	FRANCHO	Examiner	Group Art Unit
Title: NEEDLELESS LU	JER ACCESS CONNEC	CTOR		
		Address to:		
	As	sistant Commissioner fo Washington, D.C. 20	or Patents 231	
		37 CFR 1.97(b	١	
of a national at three months o	oplication other than a	t submitted herewith in continued prosecution he national stage as	s being filed withing application und set forth in 37 CF amerits, or before	n three months of the filing der 37 CFR 1.53(d); within R 1.491 in an international the mailing of a first Office 114.
		37 CFR 1.97(		
CFR 1.97(b),	on Disclosure Statemer provided that the Infor under 37 CFR 1.113, es prosecution in the a	a Notice of Allowar	ice under 37 CFI	er the period specified in 37 efore the mailing date of a R 1.311, or an Action that of:
☐ the stat	ement specified in 37 (	CFR 1.97(e);	•	TECHI .
	OR			RE(
☐ the fee	set forth in 37 CFR 1.1	17(p).		RECEIVED  JAN 1 7 2003 TECHNOLOGY CENTER R3700
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RANSMITTAL OF U	INFORMATION DISCLOSI nder 37 CFR 1.97(b) or 1.97(c	URE STATEMENT	Docket No. P-5540
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Serial No. 10/017,024	Filing Date	λ <i>I</i>	Group Art Unit
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	Paymo	ent of Fee	CFR 1.17(p))
☐ Charge ☐ Credit a ☐ Charge ☐ Certificate o	_	Certificate of Mail  I certify that this docume 1/14/03 as first class mail ur addressed to the Assist Washington, D.C. / 2023	ent and fee is being deposited with the U.S. Postal Service ander 37 C.F.R. 1.8 and is ant Commissioner for Patents, 1.
Typed or Print	Signature ed Name of Person Signing Certificate	Kathleen Monesteri	e of Person Mailing Certificate
	may only be used if Taying by  Signature  No. 35,769  Company	Dated: January I	JAN 1 7 2003 14, 2003

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	4,535,818	8/20/85	DUNC	AN ET AL.			9/26/83
	4,535,819	8/20/85	ATKI	NSON ET AL.			6/4/84
	4,512,766	4/23/85	VAILI	LANCOURT			12/8/82
	4,511,359	4/16/85	VAILI	LANCOURT			9/29/82
	4,508,367	4/2/85	OREC	POULOS ET AL.			11/17/82
	4,496,348	1/29/85	GENE	CSE ET AL.			11/29/79
	4,475,548	10/9/84					6/1/82
	4,457,749	7/3/84	BELL	OTTI ET AL.			4/19/82
	4,436,519	3/13/84	O'NE	ILL			5/28/81
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	WO 97/24548		PCT		HNOL	77	1
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	"NEW SUPER-STII of Radiology, pp.551	FF CUIDE WIRE	E'', By Drs. 1986	Smith, Darcy, Hunter, Ca	staneda-Zuniga	and Amplatz	z, Vol. 161, Number 2
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4,432,765	2/21/84	OSCA	RSSON			7/14/82	
4,432,759	2/21/84	GROS	S ET AL.			4/26/82S	
4,432,755	2/21/84	PEAR	SON			5/25/83	
4,429,856	2/7/84	JACK	SON			12/18/81	
4,421,296	12/20/83	STEPI	HENS			8/11/81	
4,421,123	12/20/83	PERC	ARPIO			11/30/81	
4,387,879	6/14/83	TAUS	CHINSKI			7/16/81	
4,360,024	11/23/82	WALI	LACE			11/14/80	
4,341,239	7/27/82	ATKI	NSON			7/14/80	
4,341,224	7/27/82	STEV	ENS			2/4/80	
4,338,933	7/13/82	BAYA	ARD ET AL.			12/22/80	
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1,105,959		CANADA  GERMANY  GERMANY				1	
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	4	,332	,333	6/1/82	LINSE	Y			7/21/80		
	4,328,802 5/11/82				CURLE	EY ET AL.			5/14/80		
	4	1,326	,569	4/27/82	VAILL	ANCOURT			2/15/80		
	4	1,324	,239	4/13/82	GORD	ON ET AL.			6/20/80		
	4	1,294	,250	10/13/81	DENNI	CHEY			12/7/79		
	4	1,261	,357	4/14/81	KONT	os			1/29/79		
	4	1,252	,122	2/24/81	24/81 HALVORSEN				5/10/79		
	4	4,240,411       12/23/80         4,219,912       9/2/80			HOSO	NO			4/18/78		
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	4,197,848	4/15/80	GARR	ETT ET AL.			1/6/78		
	4,192,304	3/11/80	MILLI	ET			3/14/78		
	4,187,846	2/12/80	LOLA	CHI ET AL.			6/22/78		
	4,177,814	12/11/79	KNEP	SHIELD ET AL.			1/18/78		
	4,177,809	12/11/79	MOOI	REHEAD			9/15/77		
	4,149,535	4/17/79	VOLD	ER			5/6/77		
	4,143,853 34/13/79		ABRA	MSON			7/14/77		
	4,133,312 1/9/79			BURD			10/13/76	3/76	
	4 , 1 128,098	4 ,1 128,098 12/5/78		BLOOM ET AL.			12/6/76	2/6/76	
	4,121,585	10/24/78	BECK	ER, JR.			1/24/77		
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1,100,002		UBEF				10/4/76	
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	28/78 P	HILL	IPS			9/30/76	
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4,063,555	2/20/77 U	JLIND	ER			1/22/76	
4,040,421 8/	9/77 Y	OUN	G			7/6/76	
4,019,512 4/	26/77 1	TENC2	ZAR			12/4/75	
4,000,739	/4/77 S	STEVE	ENS			7/9/75	
3,994,293	1/30/76 I	FERR	)			4/29/75	
3,986,508	0/19/76 I	BARR	INGTON		<u> </u>	11/6/74	
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	3,977,400	8/31/76	MOOREHEAD			11/29/74
	3,974,832	8/17/76	KRUCK			3/22/73
	3,898,988	8/12/75	MORGAN			4/22/74
	3,889,675	6/17/75	STEWART			6/25/74
	3,875,938	4/8/75	MELLOR			8/22/73
	3,856,010	12/24/74	MOOREHEAD ET AL.			9/7/73
	3,853,127	12/10/74	SPADEMAN			4/3/73
	3,837,381	9/24/74	ARROYO			12/26/72
	3,831,629	8/27/74	MACKAL ET AL.			1/24/72
	3,806,086	4/23/74	CLOYD			3/15/73
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3,648,684   3/14/72   BARNWELL ET AL.   8/4/70     3,620,500   11/16/71   SANTOMIERI   2/4/70     3,601,151   8/24/71   WINNARD   1/8/68     3,570,484   3/16/71   STEER   8/20/68     3,466,065   9/9/69   ACKER ET AL.   4/4/68     3,416,567   12/17/68   VON DARDEL ET AL.   2/12/65     3,354,881   11/28/67   BLOCH   11/3/64     3,308,798   3/14/67   SNIDER   5/5/65S     3,200,860   8/17/65   BARTON ET AL.   4/3/61     3,157,201   11/17/64   LITTMANN   4/12/62     3,157,201   11/17/64   LITTMANN   4/12/62     3,134,380   5/26/64   ARMAO   2/8/62     FOREIGN PATENT DOCUMENTS   COUNTRY   CLASS   SUBCLASS   TRANSLITION   YES   NO     OTHER DOCUMENTS   (Including Author, Title, Date, Pertinent Pages, Etc.)     EXAMINER   DATE   DATE   CONSIDERED   CONSID	EXAMINER		DATE	NAME	CLASS	SUBCLASS	
3,601,151   8/24/71   WINNARD   1/8/68	INITIAL	3,648,684	3/14/72	BARNWELL ET AL.			8/4/70
3,501,151   6/24/1   STEER		3,620,500	11/16/71	SANTOMIERI			2/4/70
3,570,494   37,6071   31,ELK   414/68   3,707,494   37,6071   31,ELK   414/68   414/68   3,416,567   12/17/68   VON DARDEL ET AL.   2/12/65   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/64   11/3/61   11/3/61   11/3/64   11/3/61   11		3,601,151	8/24/71	WINNARD			1/8/68
3,466,065   99/109   ACREAT AL.   2/12/65     3,416,567   12/17/68   VON DARDEL ET AL.   2/12/65     3,308,798   3/14/67   SNIDER   5/5/65S     3,200,860   8/17/65   BARTON ET AL.   4/3/61     3,157,201   11/17/64   LITTMANN   4/12/62     3,134,380   5/26/64   ARMAO   2/8/62		3,570,484	3/16/71	STEER			8/20/68
3,416,567   1211/05   11/3/64   11/3/64     11/3/64		3,466,065	9/9/69	ACKER ET AL.			4/4/68
3,398,798   3/14/67   SNIDER   5/5/65S     3,200,860   8/17/65   BARTON ET AL.   4/3/61     3,157,201   11/17/64   LITTMANN   4/12/62     3,134,380   5/26/64   ARMAO   2/8/62		3,416,567	12/17/68	VON DARDEL ET AL.			2/12/65
3,308,798   37,467   37,110EK   4/3/61     3,200,860   8/17/65   BARTON ET AL.   4/3/61     3,157,201   11/17/64   LITTMANN   4/12/62     3,134,380   5/26/64   ARMAO   2/8/62		3,354,881	11/28/67	ВLОСН			11/3/64
3,157,201		3,308,798	3/14/67	SNIDER			
S,157,201 ITT/704 ETT. MANA 2/8/62    3,134,380   5/26/64   ARMAO   2/8/62    DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION   YES   NO     NO   NO   NO   NO   NO   NO		3,200,860	8/17/65	BARTON ET AL.			
FOREIGN PATENT DOCUMENTS    DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANSLATION   YES   NO		3,157,201	11/17/64	LITTMANN		<u> </u>	
DOCUMENT NUMBER  DATE  COUNTRY  CLASS  SUBCLASS  TRANSLATION  YES NO  A  A  A  A  A  A  A  A  A  A  A  A  A		3,134,380	5/26/64	ARMAO			2/8/62
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	2,707,953	5/10/55	RYAN				5/13/53	
	2,847,995	8/19/58	ADAM			-	7/15/52	
	811,811	2/6/06	ALLIS				8/23/54	
	2,881,937	4/14/59	ROBE				5/22/05	
	2,899,975	8/18/59	-	ANDEZ			6/4/54	
	2,933,333	4/19/60		TSCHNEIDER ET AL.			1/22/57	
	2,999,499	9/12/61	WILLI				7/11/58 9/26/55	
	3,057,350	10/9/62	COWL	EY		1	6/27/58	
	3,084,688	4/9/63	MC CC	ONNAUGHEY		ļ	7/15/59	
	3,091,240	5/28/63	мс со	ONNAUGHEY ET AL.			5/29/58	
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	:	2,579,724	12/25/51	BREA	KSTONE			4/15/46
		2,289,677	7/14/42	PERE	LSON			9/24/40
		1,578,517	3/30/26	HEIN				12/23/24
		1,180,665	4/25/16	MC E	LROY			11/29/15
		DES.321,251	10/29/91	JEPSO	ON ET AL.			3/7/89
		6,261,282B1	7/17/01	JEPSO	ON ET AL.			5/20/98
		5,092,840	3/3/92	HEAL				7/16/90
		5,092,857	3/3/92	FLEIS	SHHACKER			5/17/91
		5,098,405	3/24/92	PETE	RSON ET AL.			1/31/91
		5,099,878	3/31/92	BOEI	HMER			5/13/91
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ial	5,100,394	3/31/92	DUDAI	R ET AL.	,		10/23/89	
	5,103,854	4/14/92	BAILE	Y ET AL.			9/24/91	
	5,104,379	4/14/92	NAKA	MURA ET AL.			3/28/90	
	5,104,389	4/14/92	DEEM	EEM ET AL.			6/27/91	
	5,108,380	4/28/92	HERL	ITZE ET AL.			1/4/91	
-	5,114,408	5/19/92	FLEIS	CHHAKER ET AL.	<u> </u>		10/18/90	
	5,122,123	6/16/92	VAILI	LANCOURT			1/30/91	
	5,127,904	7/7/92	LOOI	ET AL.			4/2/90	
	5,129,426	7/14/92	воен	IMER			5/13/91	
	5,135,489	8/4/92	JEPSO	ON ET AL.			4/10/89	
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		5,139	9,483	8/18/92	RYAN				12/12/91	
		5,13	7,527	8/11/92	MILLE	CR ET AL.			9/20/90	
		5,14	7,333	9/15/92	RAINE	S			5/13/91	
		5,15	4,703	10/13/92	BONAI	LDO			10/30/90	
	_	5,15	8,554	10/27/92	JEPSO	N ET AL.			6/12/90	
		5,16	3,922	11/17/92	MC EL	VEEN JR. ET AL.			4/29/91	
		5,16	7,637	12/1/92	OKAD.	A ET AL.			10/30/91	
		5,16	7,642	12/1/92	FOWL	ES			8/27/90	
		5,16	7,648	12/1/92	JEPSO	N ET AL.			6/11/90	
	-	5,17	1,234	12/15/92	JEPSO	N ET AL.			6/12/90	
		5,17	8,607	1/12/93	LYNN	ET AL.			10/10/90	
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2/23/93	JEPSON	ET AL.			6/14/90		
3/2/93	PARADI	S ET AL.			12/9/91		
4/6/93	MC PHE	E			5/2/91		
4/13/93	KLING				9/26/91		
4/20/93	FRANK	ET AL.			3/20/92		
5/4/93	KRANY	S			4/19/90S		
5/18/93	VAILLA	NCOURT			8/6/91		
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TIAL	5,230,706	7/27/93	DUQU	ETTE			3/12/92	
	5,234,410	8/10/93	GRAH	IAM ET AL.			10/23/92	
	5,242,393	9/7/93	BRIM	HALL ET AL.			10/23/92 6/18/92 3/9/92 9/26/91 8/3/92 10/28/92 6/4/92 12/7/92 7/18/91 2/24/93	
	5,242,423	9/7/93	GOOI	OSIR ET AL.			3/9/92	
	5,242,432	9/7/93	DE FI	RANK			9/26/91	
	5,249,598	10/5/93	SCHN	AIDT			8/3/92	
	5,250,033	10/5/93	EVAN	IS ET AL.			10/28/92	
	5,251,873	10/12/93	ATKI	NSON ET AL.			6/4/92	
	5,261,459	11/16/93	ATKINSON ET AL.			12/7/92		
	5,269,763 5,269,771	12/14/93	BOE	OEHMER ET AL.		7/18/91		
		12/14/93	ТНО	MAS ET AL.			2/24/93	
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AL	5,273,533	12/28/93	BONA	TDO			3/11/92		
	5,279,571	1/18/94	LARK	IN IN			3/3/93		
	5,280,876	1/25/94	ATKI	NS			3/25/93		
		3/1/94	PARA				4/20/92		
	5,289,849	3/1/94	VAIL	LANCOURT			11/16/92		
	5,295,657	3/22/94	ATKI	NSON			4/12/93		
	5,295,658	3/22/94	ATK	INSON ET AL.			6/1/93		
	5,301,707	4/12/94	HOF	HOFSTEENGE			4/12/93		
	5,306,243	4/26/94	4/26/94 BONALDO				7/12/93		
	5,312,362	5/17/94	PFO	LSGRAF ET AL.			2/4/93		
	5,312,377	5/17/94	DAL	TON			3/29/93		
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	5,330,435	7/19/94	VAILL	ANCOURT			4/8/93	
	5,330,437	7/19/94	DURM	AN			11/12/93	
	5,336,192	8/9/94	PALES	STRANT			11/27/91	
	5,344,414	9/6/94	LOPE	Z ET AL.			2/19/93	
	5,349,984	9/27/94	WEIN	HEIMER ET AL.			1/25/93	
	5,353,837	10/11/94	FAUS	Γ			5/22/92	
	5,360,413	11/1/94	LEAS	ON ET AL.			5/19/93	
	5,370,636	12/6/94	VON V	VITZLEBEN			8/25/93	
	5,368,801	11/29/94	VAILI	LANCOURT			1/5/93	
	5,380,306	1/10/95	BRING	ON			11/23/92	
	5,390,898	2/21/95	SMED	LEY ET AL.			4/6/94	
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TIAL	5,401,245	3/28/95	HAIN	ING			11/26/93	
		3/7/95	RYAN	I			12/22/93	
	5,395,348	4/4/95	ATKI	NSON ET AL.			9/20/93	
	5,402,982	4/25/95		BER ET AL.	1		12/3/93	
	5,409,125			NSON ET AL.			7/6/93	
	5,409,471	4/25/95					10/4/93	_
	5,417,672	5/23/95		ET AL.	+		4/21/94	_
	5,417,673	5/23/95	GORI				5/27/93	
	5,437,646	,437,646 8/1/95 H		UNT ET AL.				
	5,439,451	8/8/95	COLI	LINSON ET AL.			<del> </del>	_
	5,441,486	8/15/95	YOO	N			11/30/94 11/9/94 1/23/95	
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	5,445,630	8/29/95	RICH	MOND ————————	<del> </del>		8/15/94	
	5,453,097	9/26/95	PARA	DIS	<u> </u>			
	5,456,284	10/10/95	RYAN	NET AL.			5/10/93	
	5,456,675	10/10/95	WOL	BRING ET AL.		<del> </del>	3/31/94	
	5,458,640	10/17/95	GERI	RONE			5/5/94	
	4,566,493	1/28/86	EDW	ARDS ET AL.			2/21/85	
	4,568,081	2/4/86	MAR	TIN			10/12/84	
		2/4/86	coo	PER			4/26/84	
	4,568,336	3/4/86	HOA	G ET AL.			9/29/83	
	4,573,993			LITZE			12/20/84	•
	4,601,703	7/22/86					8/21/84	
	4,607,671	8/26/86		TO ET AL.				
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TAL	4,610,276	9/9/86	PARA	DIS ET AL.			9/29/82	
	4,610,469	9/9/86	WOL	FF-MOOIJ			1/31/84	
	4,610,665	9/9/86	MATS	SUMOTO ET AL.			1/3/84	
	4,610,674	9/9/86	SUZU	KI ET AL.			8/29/85	
	4,612,960	9/23/86	EDW.	ARDS ET AL.			6/14/85	
	4,615,693	10/7/86	PARA	ADIS ET AL.			3/27/84	
	4,617,012	10/14/86	VAIL	LANCOURT			10/29/85	
	4,629,159	12/16/86	WEL	LENSTAM			6/27/85	
	4,629,450	12/16/86	SUZU	JKI ET AL.			5/6/85	
	4,645,494	2/24/87	LEE	ET AL.			10/22/85	
	4,649,904	3/17/87	KRA	UTER ET AL.			1/2/86	
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NITIAL	4,655,752	4/7/87	HONE	ANEN ET AL.			4/7/86		
<del>-</del>	4,673,393	6/16/87	SUZU	KI ET AL.			12/24/85		
	4,673,394	6/16/87	FENT	ON, JR. ET AL.			1/17/86		
	4,683,916	8/4/87	RAIN	ES			9/25/86		
	4,673,400	6/16/87	MAR	ΓIN			2/10/86		
	4,706,487	11/17/87	BANI	OOU ET AL.			6/2/86		
	4,728,075	3/1/88	PARA	ADIS			1/28/81		
	4,745,950	5/24/88	MAT	HIEU			4/11/86		
	4,752,287	6/21/88	KUR	ΓZ ET AL.			12/30/86		
	4,752,292	6/21/88	LOPI	EZ ET AL.			1/9/87		
	4,758,225	7/19/88	cox	ET AL.			11/7/86		
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4,759,756	7/26/88	FORM	AN ET AL.			9/14/84	11 ta
4,765,588	8/23/88	ATKIN	ISON			8/18/86	
4,768,568	9/6/88	FOUR	NIER ET AL.			7/7/87	
4,775,369	10/4/88	SCHW	ARTZ			6/3/87	
4,781,702	11/1/88	HERR	LI			6/16/87	
4,786,281	11/22/88	VALE	NTINI ET AL.			6/30/86	
4,809,679	3/7/89		ONAKA ET AL.		-	10/13/87	
4,810,241	3/7/89	ROGE	RS			3/19/87	
4,827,973	5/9/89	ВОЕН	MER	1		6/27/88	
4,834,152	5/30/89	<u> </u>	SON ET AL.	<del>                                     </del>		7/27/87	
4,834,719	5/30/89	AREN	AS			4/28/86	
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IAL		6/13/89	LYNN				7/31/87	
	4,838,855	6/13/89	LAND	SKRON ET AL.			5/23/88	
	4,838,873		LUTH		<del>                                     </del>		1/21/88	
	4,842,591	6/27/89	<del> </del>				2/29/88	
	4,846,809	7/11/89	SIMS	777 A SS7 A	-		3/16/88	
	4,850,975	7/25/89	<del> </del>	KAWA			1/28/86	
	4,856,533	8/15/89	ANRA	AKU ET AL.		_	3/9/88	<del></del>
	4,857,062	8/15/89	RUSS	ELL 			<del> </del>	
	4,863,201	9/5/89	CAR	STENS			4/13/89	
	4,865,583	9/12/89	TU				4/20/88	
	4,871,356	10/3/89	HAIN	NDL ET AL.			5/17/88	
	4,874,377	10/17/89	NEW	GARD ET AL.			5/26/88	
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## ATTY DOCKET NO. SERIAL NO. 10/017,024 P-5540 INFORMATION DISCLOSURE CITATION HARDING ET AL. (USe several sheets if necessary) GROUP FILING JAN 1 4 2003 12/7/01 **U.S. PATENT DOCUMENTS** FAT & TRADEM FILING DATE SUBCLASS CLASS NAME \*EXAMINER DOCUMENT NUMBER DATE IF APPROPRIATE INITIAL 11/26/86 KATZIN 11/7/89 4,878,897 5/2/88 **STEIGERWALD** 1/23/90 4,895,346 2/1/88 PATTON ET AL. 12/12/89 4,886,507 9/29/88 **THOMSEN** 3/13/90 4,908,018 11/12/87 FLEISHHACKER ET AL. 3/20/90 4,909,798 2/17/89 **SIVERT** 4/10/90 4,915,687 2/2/89 HAINDL 4/17/90 4,917,668 11/9/87 COX ET AL. 6/19/90 4,935,010 8/15/88 7/31/90 **RUSSO** 4,944,732 9/15/88 HIBBS ET AL. 8/21/90 4,950,257 11/2/89 **BONALDO** 8/21/90 4,950,260 FOREIGN PATENT DOCUMENTS TRANSLATION SUBCLASS CLASS COUNTRY DATE DOCUMENT NUMBER YES (Including Author, Title, Date, Pertinent Pages, Etc.) OTHER DOCUMENTS **DATE CONSIDERED EXAMINER** \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not

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INITIAL	4,954,149	9/4/90	FULLEM	IANN			10/25/89		
	4,960,412	10/2/90	FINK				4/15/88		
	4,964,855	10/23/90	TODD ET	T AL.			3/31/89		
	4,966,588	10/30/90	RAYMAN	N ET AL.					
	4,969,879	11/13/90	LICHTE				7/26/88	_	
	4,981,469	1/1/91	WHITEL	HOUSE ET AL.			4/18/88	_	
	4,984,829	1/15/91	SAIGO E	ET AL.			4/21/88		
	4,986,310	1/22/91	BAILEY	ET AL.			1/22/90		
	4,998,713	3/12/91	VAILLA	ANCOURT			1/10/90		
	4,998,921	3/12/91	VICKRC	OY ET AL.			11/20/89		
	4,998,927	3/12/91	VAILLA	ANCOURT			8/18/89		
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INTIME	5,000,745	3/19/91	GUEST ET	AL.			11/18/88
	5,006,114	4/9/91	ROGERS I	ET AL.			4/20/90
	5,006,118	4/9/91	YULE				1/9/89
	5,009,391	4/23/91	STEIGER	WALD			10/31/90
	5,010,925	4/30/91	ATKINSO	N ET AL.			4/9/90
	5,041,095	8/20/91	LITTREL	L			12/22/89
	5,041,087	8/20/91	LOO ET A	L.			5/31/90
	5,041,097	8/20/91	JOHNSON	V			2/26/90
	5,049,128	9/17/91	DUQUET	re			2/6/90
	5,059,186	10/22/91	YAMAMO	OTO ET AL.			3/23/89
	5,060,812	10/29/91	OGLE, II				9/6/90
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	5,06	64,416	11/12/91	NEWG	ARD ET AL.			7/17/89	
	5,06	55,783	11/19/91	OGLE,	п			9/20/90	
	5,06	59,225	12/3/91	OKAM	IURA			9/25/89	
	5,06	59,424	12/3/91	DENNA	ANY, JR. ET AL.			10/17/90	
	5,07	70,905	12/10/91	PARAI	DIS			5/29/90	
	5,07	71,404	12/10/91	LARK	IN ET AL.			8/1/89	
	5,07	78,699	1/7/92	HABE	R ET AL.			9/22/89	
	5,08	85,645	2/4/92	PURD	Y ET AL.			8/15/90	
	5,08	88,984	2/18/92	FIELD	os			10/3/90	
	5,40	62,255	10/31/95	ROSE	N ET AL.			3/25/94	
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IAL	5,465,938	11/14/95	WERG	GE ET AL.			3/2/93			
	5,466,219	11/14/95	<del> </del>	ET AL.			8/27/92			
	5,470,319	11/28/95	MAY	MAYER BONALDO			6/20/94			
	5,474,536	12/12/95	BONA				4/25/94			
	5,474,541	12/12/95	RITS	KY ET AL.			8/31/93			
	5,474,544	12/12/95	LYNI	N			11/22/94			
	5,487,728	1/30/96	VAIL	LANCOURT			5/19/94			
	5,487,731	1/30/96	DEN'	ron			2/22/94			
	5,492,147	2/20/96	СНА	LLENDER ET AL.			1/17/95			
	5,492,304	2/20/96	SMIT	ГН ЕТ AL. 			6/16/93			
	5,501,426	3/26/96	ATK	INSON ET AL.			5/10/94			
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INITIAL	5,50	09,433	4/23/96	PARA	DIS			10/13/93	
	5,50	09,912	4/23/96	VAILI	ANCOURT ET AL.			12/29/94	
	5,51	14,098	5/7/96	PFOSI	GRAF ET AL.			3/31/94	
	5,51	14,116	5/7/96	VAILI	LANCOURT ET AL.			10/24/94	
	5,52	20,665	5/28/96	FLEE	<b>LMOOD</b>				
	5,52	29,278	6/25/96	WELD	OON ET AL.			11/19/93	
	5,53	31,810	7/2/96	FULL	EMANN			9/21/94	
	5,53	33,708	7/9/96	ATKI	NSON ET AL.			1/26/95	
	5,5	33,983	7/9/96	HAIN	ING			7/9/96	
	5,5	35,771	7/16/96	PURD	Y ET AL.			8/10/94	
	5,5	35,785	7/16/96	WERG	GE ET AL.			9/8/94	
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Note   P-5540   10/017,024   HARDING ET AL.   Filling   12/7/01   GROUP	
TRADE   STATE   STAT	
DATE   NAME   CLASS   SUBCLASS   FAPPROPR	
DATE   NAME   CLASS   SUBCLASS   FAPPROPR	
5,540,661       7/30/96       TOMISAKA ET AL.       5/3/94         5,549,566       8/27/96       ELIAS ET AL.       10/27/94         5,549,577       8/27/96       SIEGEL ET AL.       12/29/93         5,549,651       8/27/96       LYNN       5/25/94         5,552,118       9/3/96       MAYER       7/22/94         5,555,908       9/17/96       EDWARDS ET AL.       6/23/95         5,569,235       10/29/96       ROSS ET AL.       6/21/94         5,573,516       11/12/96       TYNER       9/18/95         5,578,059       11/26/96       PATZER       8/10/95         5,584,808       12/17/96       HEALY       6/20/95         5,597,536       1/28/97       MAYER       2/28/96         FOREIGN PATENT DOCUMENTS	TE
5,549,566   8/27/96   SIEGEL ET AL.   12/29/93     5,549,577   8/27/96   LYNN   5/25/94     5,549,651   8/27/96   LYNN   5/25/94     5,552,118   9/3/96   MAYER   7/22/94     5,555,908   9/17/96   EDWARDS ET AL.   6/23/95     5,569,235   10/29/96   ROSS ET AL.   6/21/94     5,573,516   11/12/96   TYNER   9/18/95     5,578,059   11/26/96   PATZER   8/10/95     5,584,808   12/17/96   HEALY   6/20/95     5,597,536   1/28/97   MAYER   2/28/96     FOREIGN PATENT DOCUMENTS     DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANS YES     TRANS YES   TRANS YES   TRANS YES     COUNTRY   CLASS   SUBCLASS   TRANS YES     TRANS YES   TRAN	
5,549,577   8/27/96   SIEGEL ET AL.   5/25/94     5,549,651   8/27/96   LYNN   5/25/94     5,552,118   9/3/96   MAYER   7/22/94     5,555,908   9/17/96   EDWARDS ET AL.   6/23/95     5,569,235   10/29/96   ROSS ET AL.   6/21/94     5,573,516   11/12/96   TYNER   9/18/95     5,578,059   11/26/96   PATZER   8/10/95     5,584,808   12/17/96   HEALY   6/20/95     5,597,536   1/28/97   MAYER   2/28/96     FOREIGN PATENT DOCUMENTS   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANS YES	
5,549,651   8/21/96   ETRN   7/22/94     5,552,118   9/3/96   MAYER   7/22/94     5,555,908   9/17/96   EDWARDS ET AL.   6/23/95     5,569,235   10/29/96   ROSS ET AL.   6/21/94     5,573,516   11/12/96   TYNER   9/18/95     5,578,059   11/26/96   PATZER   8/10/95     5,584,808   12/17/96   HEALY   6/20/95     5,597,536   1/28/97   MAYER   2/28/96     FOREIGN PATENT DOCUMENTS   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANK YES	
5,552,118   9/3/96   MAYER   6/23/95     5,555,908   9/17/96   EDWARDS ET AL.   6/23/95     5,569,235   10/29/96   ROSS ET AL.   6/21/94     5,573,516   11/12/96   TYNER   9/18/95     5,578,059   11/26/96   PATZER   8/10/95     5,584,808   12/17/96   HEALY   6/20/95     5,597,536   1/28/97   MAYER   2/28/96     FOREIGN PATENT DOCUMENTS   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRANS YES	
5,555,908   9/1/96   EDWARDS ET AL.   6/21/94     5,569,235   10/29/96   ROSS ET AL.   6/21/94     5,573,516   11/12/96   TYNER   9/18/95     5,578,059   11/26/96   PATZER   8/10/95     5,584,808   12/17/96   HEALY   6/20/95     5,597,536   1/28/97   MAYER   2/28/96     FOREIGN PATENT DOCUMENTS   CLASS   SUBCLASS   TRAINS   YES     DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   TRAINS   YES     COUNTRY   CLASS   SUBCLASS   TRAINS   TRAINS   TRAINS     COUNTRY   CLASS   SUBCLASS   TRAINS   TRAINS     COUNTRY   CLASS   SUBCLASS   TRAINS   TRAINS     COUNTRY   CLASS   SUBCLASS   TRAINS     COUNTRY   CLASS   COUNTRY   CLASS   COUNTRY     COUNTRY   C	
5,569,235	
5,573,516	
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DOCUMENT NUMBER  DATE  COUNTRY  CLASS  SUBCLASS  YES  YES  TRANS  YES  TRANS  YES  TRANS  YES  TRANS  YES  TRANS  YES  TRANS  TR	
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NITIAL	5,616,130	4/1/97	MAYE	R			6/22/95	
	5,620,434	4/15/97	BRON	Y			7/10/95	
	5,674,206	10/7/97	ALTO	N ET AL.			7/19/96	
	5,685,866	11/11/97	LOPE	Z			11/4/94	
	5,688,254	11/18/97	LOPE	Z ET AL.			6/7/95	
	5,690,612	11/25/97	LOPE	Z ET AL.			6/7/95	
	5,694,686	12/9/97	LOPE	Z			6/24/94	
	5,695,466	12/9/97	LOPEZ ET AL.				7/23/93	
	5,699,821	12/23/97	PARA	ADIS			8/15/94	
	5,700,248	12/23/97	LOPE	ZZ			12/15/95	
	5,702,019	12/30/97	GRIM	1ARD			9/27/95	
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*EXAMINER	DOCUMENT NUMBER	DATE	T	NAME	CLASS	SUBCLASS	FILING DATE	
INITIAL	5,727,770	3/17/98	DENNI	:S			2/7/97	
	5,738,663	4/14/98	LOPEZ				12/15/95	
	5,749,861	5/12/98	GUAL	A ET AL.			2/26/97	
	5,776,113	7/7/98	DAUG	HERTY ET AL.			3/29/96	
	5,788,675	8/4/98	MAYE	R			10/31/95	
	5,820,601	10/13/98	MAYE	CR			8/20/96	
	5,836,923	11/17/98	MAYE	R			10/22/96	
	5,251,873	10/12/93	ATKIN	NSON ET AL.			6/4/92	
	5,080,654	1/14/92	PICHA	A ET AL.			11/8/90	
	4,969,883	11/13/90	GILBE	ERT ET AL.			1/3/89	
	4,449,693	5/22/84	GERE	G			9/30/82	
		FOR	REIGN PAT	ENT DOCUMENTS				
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